In the Claims:

1. (Currently Amended) A positioning system, comprising:

a frame;

a table to be positioned with respect to the frame having a surface to retain a workpiece;

a first flexible member that connects said table to a first movable base, the first flexible member being resistant <u>rigid</u> to movement in at least one first degree of freedom <u>perpendicular to the surface</u>, and flexible in other degrees of freedom;

a support structure that eonnects supports said first movable base to-said frame; and

at least one <u>magnetic</u> actuator connected to <u>that actuates</u> said first movable base in said first <u>one</u> degree of freedom with respect to said frame.

- 2. (Original) The positioning system of claim 1, comprising at least one additional actuator to adjust the position of said table in at least a second degree of freedom.
 - 3-4. (Canceled)
- 5. (Original) The positioning system of claim 1, wherein said first movable base comprises a magnet, and said actuator comprises one or more coil assemblies.
- 6. (Original) The positioning system of claim 5, wherein a first said coil assembly includes a conduit therethrough, said first flexible member positioned in said conduit.
 - 7. (Canceled)
- 8. (Original) The positioning system of claim 1, said support structure comprising one or more bellows.
- 9. (Original) The positioning system of claim 1, said support structure comprising one or more springs.

10-33. (Canceled)

- 34. (New) The positioning system of claim 1, wherein the support structure permits movement of the first movable base in said one degree of freedom.
- 35. (New) The positioning system of claim 1, wherein the magnetic actuator is an EI core type actuator.
- 36. (New) The positioning system of claim 35, wherein the first movable base comprises an I component of the EI core type actuator.
 - 37. (New) An exposure apparatus, comprising:
 - a reticle stage having a surface to retain a reticle;
- a first flexible member that connects the reticle stage to a first movable base, the first flexible member being rigid to movement in at least one degree of freedom perpendicular to the surface, and flexible in other degrees of freedom;
 - a support structure that supports the first movable base; and
- at least one magnetic actuator that actuates the first movable base in the one degree of freedom.
- 38. (New) The positioning system of claim 37, wherein the support structure permits movement of the first movable base in said one degree of freedom.
- 39. (New) The positioning system of claim 37, wherein the magnetic actuator is an EI core type actuator.
- 40. (New) The positioning system of claim 39, wherein the first movable base comprises an I component of the EI core type actuator.
 - 41. (New) An exposure apparatus, comprising:
 - a wafer stage having a surface to retain a wafer;
- a first flexible member that connects the wafer stage to a first movable base, the first flexible member being rigid to movement in at least one degree of freedom perpendicular to the surface, and flexible in other degrees of freedom;
 - a support structure that supports the first movable base; and

at least one magnetic actuator that actuates the first movable base in the one degree of freedom.

- 42. (New) The positioning system of claim 41, wherein the support structure permits movement of the first movable base in said one degree of freedom.
- 43. (New) The positioning system of claim 41, wherein the magnetic actuator is an EI core type actuator.
- 44. (New) The positioning system of claim 43, wherein the first movable base comprises an I component of the EI core type actuator.